L12 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN AN 1985:525206 CAPLUS 103:125206 DN ED Entered STN: 19 Oct 1985 Protective transfer coatings TIPA Nitto Electric Industrial Co., Ltd., Japan SO Jpn. Kokai Tokkyo Koho, 5 pp. UV cure CODEN: JKXXAF DT Patent LA Japanese ICM B05D001-28 IC ICS B05D003-06 ICA C08J007-04 CC 42-11 (Coatings, Inks, and Related Products) FAN.CNT 1 PATENT NO. KIND DATE APPLICATION NO. DATE ----_____ ------JP 60068082 A2 19850418 JP 1983-177462 19830926 <--JP 61061875 B4 19861227 PRAI JP 1983-177462 19830926 CLASS PATENT NO. CLASS PATENT FAMILY CLASSIFICATION CODES -----JP 60068082 ICM B05D001-28 ICS B05D003-06 ICA C08J007-04 AΒ Protective coatings with good adhesion to flat surfaces are formed without the use of organic solvents by coating a backing film with a mixture of a compound containing (meth)acryloyl groups and a copolymer of acrylic monomers with unsatd. photosensitizers, then pressing the coated side of the film against the surface, photocuring it, and removing the backing film. Thus, Et methacrylate 80, Me methacrylate 20, 4-acryloyloxyethoxy-4'chlorobenzophenone 10, acrylic acid 5, Na dodecylbenzenesulfonate 3, and H2O 100 parts were mixed with 0.05 part (NH4)2S2O8 and heated to obtain a photosensitive copolymer [98101-06-5] dispersion, 100 parts (solids) of which was mixed with 50 parts tetraethylene glycol dimethacrylate [109-17-1], applied to a $60-\mu$ polyethylene (I) [9002-88-4] sheet, and dried to form a $10-\mu$ coating. The coated sheet was pressed against an SUS 304 steel sheet and UV irradiated, and then the I sheet was peeled off, leaving a coating which showed good hardness and adhesion. Coatings applied similarly to Cu or acrylic polymer sheets also showed good adhesion. STphotocurable solventless acrylic transfer coating; copolymd photosensitizer acrylic transfer coating; crosslinking catalyst copolymd photochem; abrasion resistant photocurable transfer coating IT Acrylic polymers, uses and miscellaneous RL: USES (Uses) (sheets, abrasion-resistant acrylic transfer coatings for, containing copolymd. photosensitizers) IT Coating materials (abrasion-resistant, transfer, containing copolymd. photosensitizers and (meth)acrylate diluents) ΙT Coating materials (abrasion-resistant, photocurable, solventless, transfer, acrylic, containing copolymd. photosensitizers and (meth)acrylate diluents) IT Abrasion-resistant materials (coatings, transfer, containing copolymd. photosensitizers and (meth)acrylate diluents) Crosslinking catalysts ΙT (photochem., copolymd., acrylic transfer coatings containing, with

(meth)acrylate diluents)

```
ΙT
      9002-86-2
                  9002-88-4
     RL: USES (Uses)
         (backing sheets, for protective acrylic transfer coatings containing
         copolymd. photosensitizers)
ΙT
     109-17-1
                3524-68-3
                            4986-89-4
     RL: USES (Uses)
         (diluents, for acrylic transfer coatings containing copolymd.
        photosensitizers)
ΙT
     98101-06-5
                  98101-08-7
                                98101-10-1
     RL: USES (Uses)
         (photocurable transfer coatings, with (meth)acrylate diluents,
        abrasion-resistant)
IT
     7440-50-8, uses and miscellaneous
                                          11109-50-5
     RL: USES (Uses)
         (sheets, abrasion-resistant acrylic transfer coatings for, containing
        copolymd. photosensitizers)
     9002-86-2
RN
     9002-88-4
RN
RN
     109-17-1
RN
     3524-68-3
RN
     4986-89-4
RN .
     98101-06-5
RN
     98101-08-7
RN
     98101-10-1
RN
     7440-50-8
RN
     11109-50-5
     ANSWER 2 OF 3 WPIX COPYRIGHT 2005 THE THOMSON CORP on STN
L12
     1985-131225 [22]
AN
                        WPIX
DNN
     N1985-098648
                        DNC C1985-057062
TI
     Forming polymer surface protective layer - includes applying acrylic
     copolymer photohardenable tacky layer to self-supporting sheet or film.
DC
     A14 A32 G02 P42 P78
PΑ
     (NITL) NITTO ELECTRIC IND CO
CYC
     1
PΙ
     JP 60068082
                     A 19850418 (198522)*
     JP 61061875
                     B 19861227 (198704)
ADT
     JP 60068082 A JP 1983-177462 19830926
PRAI JP 1983-177462
                          19830926
IC
     B05D001-28; B05D003-06; B29C063-02; B44C001-16; C08J007-04
AB
         60068082 A UPAB: 19930925
     New forming method of surface protection layer features the following:
     Photohardenable tacky layer (I) consisting of acrylic copolymer formed up
     by copolymerising acrylic unsatd. monomer and light sensitiser having
     polymeric unsatd. gp. and photopolymeric cpd. having at least 1
     (meth)acryloyl gp. per molecule is applied to the surface of
     self-supporting sheet (or film), and a composite sheet (or film) made up
     thus forming a photohardening tacky layer is adhered to an adherend
     through (I). (I) is hardened by exposing to light, and then only the
     self-supporting sheet (or film) is peeled off, and thus a surface
     protection layer consisting of polymeric hardened substance is formed on
     the surface of the adherend.
          USE/ADVANTAGE - Surface protection layer is provided for plate-like
     goods before working and also after working.
     0/0
FS
     CPI GMPI
FA
     AB
MC
     CPI: A04-F06C; A11-B05; A11-C02B; A12-B01E; G02-A02C
L12 ANSWER 3 OF 3 JAPIO
                           (C) 2005 JPO on STN
AN
     1985-068082
                    JAPIO
ΤI
     FORMATION OF SURFACE PROTECTIVE LAYER
IN
     MATSUMOTO KENJI; WADA SHINTARO; YAMADA SHINJI; SHIBATA YUKARI
```

PA NITTO ELECTRIC IND CO LTD

PI JP 60068082 A 19850418 Showa

AI JP 1983-177462 (JP58177462 Showa) 19830926

PRAI JP 1983-177462 19830926

SO PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 1985

IC ICM B05D001-28 ICS B05D003-06

ICA C08J007-04

=>

AB PURPOSE: To form a satisfactory surface protective film by adhering a composite sheet formed by coating a specific photosetting type self-adhesive compsn. on a self-supportable sheet surface to the surface of a material to be adhered via a photosetting type self-adhesive layer then irradiating light thereto to cure the self-adhesive layer. CONSTITUTION: A photosetting type self-adhesive compsn. is prepared of an acrylic copolymer formed by copolymerizing an unsatd. acrylic monomer and a photosensitizer having a polymerizable unsatd. group and a photopolymerizable compound having >=1 methacryloyl group in a molecule is prepared Such compsn. is coated on a self-supportable sheet to form a composite sheet having the photosetting self-adhesive layer. Said sheet is adhered via a photosetting self- adhesive layer to the surface of a material to be adhered and is irradiated with light to cure the photosetting self-adhesive layer. Only the self-supportable sheet is stripped and the surface protective layer consisting of the polymerization cured

matter is formed on the surface of the material to be adhered. COPYRIGHT: (C)1985,JPO&Japio